AMENDMENTS TO THE CLAIMS

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1. (Previously Presented) A method of generating an output document from structured-document information that is described in a structured-document description language and is composed of blocks including a language-type declaration block, a document-type declaration block and a document entity block, said method comprising the steps of:

inputting document information from a document information source; reading the blocks in said input document information;

analyzing tags and elements in the document entity according to the rule defined by the document-type declaration to convert the document entity to a tree structure;

evaluating a degree of significance for each element;

adding a result of the evaluation to the tree structure; and

generating the output document by reducing an information content of the
input document information according to the result added to the tree structure.

- 2. (Original) The method as claimed in claim 1, further comprising the step of outputting said output document to an image outputting device or an image transmission device.
- 3. (Original) The method as claimed in claim 2, wherein said image outputting device is a printing device or a display device, and said image transmission device is a facsimile device.

4-51. (Canceled)

- 52. (Previously presented) The method as claimed in claim 1, wherein said step of generating the output document includes steps of selecting an element among said plurality of elements in a decreasing significance order; and placing the selected element on said output document.
- 53. (Previously presented) The method as claimed in claim 1, wherein said evaluating step includes a step of evaluating a degree of significance of each element based on significance defining information described in said document information.
- 54. (Previously presented) The method as claimed in claim 1, wherein said evaluating step includes a step of evaluating a degree of significance of each element based on a fixed significance-evaluating standard.
- 55. (Previously presented) The method as claimed in claim 1, wherein said step of generating the output document includes a step of limiting the element to be placed on said output document, based on a predetermined page size and a predetermined number of pages of said output document.
- 56. (Previously presented) The method as claimed in claim 55, wherein said limiting step includes a step of limiting the element to be placed on said output document so that a total space occupied by one or a plurality of selected elements on said output document is less than or equal to a space limit determined by the page size and the number of pages.
- 57. (Previously presented) The method as claimed in claim 56, wherein said limiting step includes a step of continuing selecting the element until said total space

exceeds said space limit; and eliminating a most-recently selected element from said output document.

- 58. (Previously presented) The method as claimed in claim 56, wherein said limiting step includes a step of continuing selecting the element until said total space exceeds said space limit; reducing a size of at least a part of said one or said plurality of selected elements so that said total space becomes less than or equal to said space limit; and placing said one or said plurality of selected elements on said output document.
- 59. (Previously presented) The method as claimed in claim 1, wherein said step of generating the output document includes a step of eliminating an element whose degree of significance is lower than a specific significance level.
- 60. (Previously presented) The method as claimed in claim 59, wherein said specific significance level differs with an attribute of said each element.
- 61. (Previously presented) The method as claimed in claim 60, wherein the specific significance level of a non-text element is higher than that of a text element.
- 62. (Previously presented) The method as claimed in claim 1, wherein said step of generating the output document includes steps of: keeping a text element; and eliminating a non-text element.
- 63. (Previously presented) The method as claimed in claim 1, wherein said step of generating the output document includes a step of compressing a non-text element by using a compression method corresponding to the degree of significance of said non-text element.

- 64. (Previously presented) The method as claimed in claim 1, wherein said step of generating the output document includes a step of compressing a non-text element at a compression rate corresponding to the degree of significance of said non-text element.
- 65. (Previously presented) The method as claimed in claim 1, wherein said step of generating the output document includes a step of eliminating a text element whose degree of significance is lower than a first significance level; and compressing a non-text element whose degree of significance is lower than a second significance level.
- 66. (Previously Presented) A document-information processing device for generating an output document from structured-document information that is described in a structured-document description language and is composed of blocks including a language-type declaration block, a document-type declaration block and a document entity block, comprising:

an input unit inputting document information from a document information source;

an evaluation unit for reading the blocks in said input document information, analyzing tags and elements in the document entity according to the rule defined by the document-type declaration, converting the document entity to a tree structure, evaluating a degree of significance of each element, and adding a result of the evaluation to the tree structure; and

a process unit for generating the output document by reducing an information content of the input document information according to the result added to the tree structure.

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67. (Previously presented) The document-information processing device as claimed in claim 66, wherein said process unit selects an element among said plurality of elements in a decreasing significance order and places the element on said output document.

- 68. (Previously presented) The document-information processing device as claimed in claim 66, wherein said evaluation unit evaluates a degree of significance of each element based on significance defining information described in said document information.
- 69. (Previously presented) The document-information processing device as claimed in claim 66, wherein said evaluation unit evaluates a degree of significance of each element based on a fixed significance-evaluating standard.
- 70. (Previously presented) The document-information processing device as claimed in claim 66, wherein said process unit limits the element to be placed on said output document, based on a predetermined page size and a predetermined number of pages of said output document.
- 71. (Previously presented) The document-information processing device as claimed in claim 70, wherein said process unit limits the element to be placed on said output document so that a total space occupied by one or a plurality of selected elements on said output document is less than or equal to a space limit determined by the page size and the number of pages.
- 72. (Previously presented) The document-information processing device as claimed in claim 71, wherein said process unit continues selecting the element until said

total space exceeds said space limit; and eliminating a most-recently selected element from said output document.

73. (Previously presented) The document-information processing device as claimed in claim 71, wherein said process unit continues selecting the element until said total space exceeds said space limit; reducing a size of at least a part of said one or said plurality of selected elements so that said total space becomes less than or equal to said space limit; and placing said one or said plurality of selected elements on said output document.

74. (Previously presented) The document-information processing device as claimed in claim 66, wherein said process unit eliminates an element whose degree of significance is lower than a specific significance level.

75. (Previously presented) The document-information processing device as claimed in claim 74, wherein said specific significance level differs with an attribute of said each element.

76. (Previously presented) The document-information processing device as claimed in claim 74, wherein the specific significance level of a non-text element is higher than that of a text element.

77. (Previously presented) The document-information processing device as claimed in claim 66, wherein said process unit keeps a text element and eliminates a non-text element.

- 78. (Previously presented) The document-information processing device as claimed in claim 66, wherein said process unit compresses a non-text element by using a compression method corresponding to the degree of significance of said non-text element.
- 79. (Previously presented) The document-information processing device as claimed in claim 66, wherein said process unit compresses a non-text element at a compression rate corresponding to the degree of significance of said non-text element.
- 80. (Previously presented) The document-information processing device as claimed in claim 66, wherein said process unit eliminates a text element whose degree of significance is lower than a first significance level; and compressing a non-text element whose degree of significance is lower than a second significance level.
- 81. (Previously presented) The document-information processing device as claimed in claim 66, wherein said process unit compresses the elements with a compression rate varied according to a selected process mode.
- 82. (Currently Amended) A document-information processing device for generating an output document from structured-document information that is described in a structured-document description language and is composed of blocks including a language-type declaration block, a document-type declaration block and a document entity block, comprising:

means for inputting document information from a document information source;

means for reading the blocks in said input document information;

means for analyzing tags and elements in the document entity according to the rule defined by document-type declaration to convert the document entity to a tree structure;

means for evaluating a degree of significance of each element[[:]];
means for adding a result of the evaluation to the tree structure; and
means for generating the output document by reducing an information
content of the input document information according to the result added to the tree
structure.

83. (Previously Presented) A recording medium readable by a computer, tangibly embodying a program of instructions executable by the computer to generate an output document from structured-document information that is described in a structured document description language and is composed of blocks including a language-type declaration block, a document-type declaration block and a document entity block, said program comprising the steps of:

inputting document information from a document information source; reading the blocks in said input document information;

analyzing tags and elements in the document entity according to the rule defined by the document-type declaration to convert the document entity to a tree structure;

evaluating a degree of significance for each element;
adding a result of the evaluation to the tree structure; and
generating the output document by reducing an information content of the
input document information according to the result added to the tree structure.

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84. (New) A method of generating an output document from structured-document information, said method comprising the steps of:

inputting document information from a document information source, said document information being composed a plurality of elements;

evaluating a degree of significance of each element of said input document information;

selecting in succession an element among said plurality of elements of said input document information in a decreasing significance order based on a result of the evaluating step;

generating the output document in which the selected elements are placed in a selecting order in the selecting step; and

outputting the generated output document on a printing device, a display device, or an image transmission device;

wherein in the evaluating step includes the steps of:

determining whether the input document information is XML document information;

reading a document-type declaration and a document entity of the input document information if it is determined that the input document information is XML document information;

separating a tag and an element described in the document entity by using a regulation set in the document-type declaration; and

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converting the document entity to a tree structure.

85. (New) A document-information processing device, comprising:

an input unit configured to input document information from a document information source, said document information being composed a plurality of elements;

an evaluation unit configured to evaluate a degree of significance of each element of said input document information;

a process unit configured to select an element among said plurality of elements of said input document information in a decreasing significance order based on an evaluation result of the evaluation unit and generate the output document in which the selected elements are placed in a selecting order; and

an output unit configured to output the generated output document on a printing device, a display device or an image transmission device,

wherein in the evaluation unit includes:

a exterminating unit configured to determine whether the input document information is XML document information;

a reading unit configured to read a document-type declaration and a document entity of the input document information if it is determined that the input document information is XML document information;

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a separating unit configured to separate a tag and an element described in the document entity by using a regulation set in the document-type declaration; and

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a converting unit configured to convert the document entity to a tree structure.